



19/0
AE
E Williams
9-3-02

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

JENNIE BIH-JIEN SHEN

CASE NO.: BB1137

APPLICATION NO.: 09/326,285

GROUP ART UNIT: 1634

FILED: JUNE 7, 1999

EXAMINER: J. C. EINSMANN

FOR: GENES FOR DESATURASES TO
ALTER LIPID PROFILES

AMC

Response After Final

This is in response to the Final Office Action dated March 21, 2002 in which claims 1-38 of the subject application were finally rejected. Applicants respectfully request entry of this Response After Final because it is believed to place the claims in form for allowance or, in the alternative, to place the claims in better form for consideration on appeal. Reconsideration is respectfully requested and the following is submitted in support thereof.

In The Claims

OK to enter. 9/3/02
JMW 9/3/02
①

172. (twice amended) A method of improving the carcass quality of an animal by feeding the animal a carcass quality improving amount of animal feed derived from the processing of corn grain obtained from a corn plant or plant part which comprises a chimeric gene selected from the group consisting of:

(i) a chimeric gene comprising an isolated nucleic acid fragment encoding a corn delta-9 stearoyl ACP desaturase wherein said desaturase has an amino acid sequence identity of at least 80% based on the Clustal method of alignment when compared to a second polypeptide selected from SEQ ID NOS:9 or 11, or a functionally equivalent subfragment of the isolated nucleic acid fragment encoding a corn delta-9 stearoyl ACP desaturase, or the complement of either the fragment or subfragment, operably linked to suitable regulatory sequences;

(ii) a chimeric gene comprising (a) an isolated nucleic acid fragment encoding a corn delta-9 stearoyl ACP desaturase wherein said desaturase has an amino acid sequence identity of at least 80% based on the Clustal method of alignment when compared to a second polypeptide selected from SEQ ID NOS:9 or 11, or a functionally equivalent subfragment of the isolated nucleic acid fragment encoding a corn delta-9 stearoyl ACP desaturase, or the complement of either the fragment or subfragment, and (b) an isolated nucleic acid fragment comprising a corn oleosin promoter wherein said promoter can be full length or partial and said promoter: (1) comprises a